

Sub 11/ 23. (Three times Amended) A device for reproducing a digital signal recorded on a medium, the digital signal including a video signal and an audio signal, the audio signal being composed of data units and each data unit including information for identifying a type of audio signal represented by the data unit, a block of the data units of audio signal being sequentially interleaved between data units of video signal, comprising:

a demodulator for demodulating the digital signal to restore an original signal;

41 a signal processor for receiving the audio signal, extracting the indicating information, separating the data units corresponding to a first type of audio signal from data units corresponding to a second type of audio signal based on the extracted indicating information, said signal processor including a system time clock, a memory for storing the data units corresponding to the first type and the second type of audio signal, and first and second audio presentation parts receiving the system time clock to control a presentation timing of the first type or the second type of audio signal; and

a controller, coupled to the signal processor, controlling the signal processor to output the data units corresponding to the first type or the second type of the audio signal designated by a user input.

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25. (Twice Amended) A device as claimed in claim 23, wherein the first type of audio signal corresponds to accompaniment sound.

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27. (Twice Amended) A device as claimed in claim 23, wherein the audio signal is encoded by an MPEG coding mode, wherein the signal processor further comprises:

an MPEG audio decoder for decoding the audio signal.

28. (Three Times Amended) A method for reproducing a digital signal recorded on a medium, said digital signal including a video signal and an audio signal, the audio signal being composed of data units and each data unit including information for identifying a type of audio signal represented by the data unit, a block of the data units of audio signal being sequentially interleaved between data units of video signal, the method comprising the steps of:

demodulating the digital signal to restore an original signal;

receiving the audio signal;

extracting the indicating information;

separating the data units corresponding to a first type of audio signal from data units corresponding to a second type of audio signal based on the extracted indicating information, by storing the first and second types of audio signals in a memory, receiving the data units corresponding to the first and second types of audio signals in first and second audio presentation parts

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along with a system time clock to control a presentation timing of the first or second type of audio signal; and

outputting one of the first or second types of audio signals in response to a user input designating one of the first or second types of audio signals.

29. (Twice Amended) The method of claim 28, wherein the step of separating includes separating the first type of the audio signal representing accompaniment sound.

31. (Four Times Amended) A device for processing a digital signal, comprising:

an audio signal processor receiving indicating information and data units of digital audio data of a first type and a second type interleaved with digital video data, the indicating information indicating an identification of the data units of the first type and the second type, the audio signal processor extracting the indicating information, and separating the data units of the first type from the data units of the second type using the indicating information, said signal processor including a system time clock, a memory for storing the data units of the first type and the second type, and first and second audio presentation parts receiving the system time clock to control a presentation timing of the data units of the first type or the second type; and

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a control circuit controlling the audio signal processor to output an audio signal corresponding to the data units of one of the first or second types, based on a user input.

33. (Twice Amended) The device of claim 31, wherein the audio data of the first type includes accompaniment sound.

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34. (Twice Amended) The device of claim 31, wherein the audio data of the first type includes accompaniment sound and vocals, which are associated with the digital video data.

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35. (Three Times Amended) The device of claim 31, wherein the audio signal processor compares the system time clock to timing information in the digital audio data, and outputs audio data with a timing based on the comparison.

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36. (Amended) The device of claim 31, wherein the audio signal processor MPEG decodes the audio data.

37. The device of claim 31, further comprising:
a demodulator demodulating the digital audio data prior to receipt by the audio signal processor.

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38. (Four Times Amended) A method for processing a digital signal, comprising:

receiving indicating information and data units of digital audio data of a first type and a second type interleaved with digital video data, the indicating information indicating an identification of the data units of the first type and the second type;

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extracting the indicating information;

separating the data units of the first type from the data units of the second type using the indicating information by storing the data units of the first and second types in a memory, receiving the data units of the first and second types in first and second audio presentation parts along with a system time clock to control a presentation timing of data units of the first or second type; and

outputting audio data corresponding to the data units of the first or second type in response to a user input.

40. (Twice Amended) The method of claim 38, wherein the audio data of the first type includes accompaniment sound.

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41. (Twice Amended) The method of claim 38, wherein the audio data of the first type includes accompaniment sound and vocals, which are associated with the digital video data.

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42. (Three Times Amended) The method of claim 38, further comprising:
comparing the system time clock to timing information in the digital
audio data; and
outputting the audio data with a timing based on the comparison.

43. (Twice Amended) The device of claim 38, wherein the separating step
includes MPEG decoding the audio data.

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44. (Twice Amended) The device of claim 23, wherein the signal processor
includes a switch that selectively outputs the data units of the first type or the
second type.